Smart-AVI

SMART AUDIO VIDEO INNOVATION

SignWare-Pro

User's Guide

SignWare-Pro v1.2

www.smartavi.com

Table of Contents

Introduction 3

Disclaimer Notice 4

What's in the Box? 5

Limited Warranty Statement 6

Section 1 -Setting up the SignWare-Pro Server Software

1. Getting Started 7

2. Installing SignWare-Pro Server 8

3. Setting up the SignWare-Pro Client 9

4. Navigating the SignWare-Pro Client 10

5. Updating the SignWare-Pro Client 12

Section 2 -Using the SignWare-Pro Server Software

6. Running SignWare-Pro Server Software for the first time 13

6.1 Firewall 14

6.2 User Manager 15

7. Task Manager 17

8. Creating and working with schedules 20

8.1 Super Schedules 23

9. Template Creator 24

10. Creeping Line Editor 31

11. Registration and Activation 38

Specifications 39

Server Requirements 39

Alphabetical Index 40

Introduction

Congratulations on your purchase of the SignWare-Pro Digital Signage Solution. Please read the instructions carefully before using.

SignWare-Pro is a digital signage solution that creates new marketing and information sharing portals to reach target audiences with real time information. SignWare-Pro attracts audiences by displaying your message using vivid, high-quality video and animation replacing traditional signs and posters.

SignWare-Pro uses your IP network to remotely manage, control, and broadcast your information to target audiences in specific locations across the globe. Because it uses a closed network, your information is safe and secure.

SignWare-Pro is capable of playing back all industry standards, such as Flash files, Video .MPG, HTML, QuickTime, Power Point, .JPG's, Java Applets, and more.

SignWare-Pro is the ultimate solution that provides both hardware and software for the display and management of your digital content. It is highly cost effective and easy to use. It is the perfect solution for both small-scale and large-scale projects.

Disclaimer Notice

The information contained in this document is subject to change without notice. SmartAVI makes no warranty of any kind with regard to this material, including but not limited to, implied warranties of merchantability and fitness for particular purpose.

SmartAVI will not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material.

No part of this document may be photocopied, reproduced, or translated into another language without prior written consent from SmartAVI, Inc.

What's in the Box?

PART NO.	QTY	DESCRIPTION
AP-SNWP-8GS	1	SignWarePro Client* - ***Figure A***
AP-SNW-SW	1	SignWare-Pro Software -***Figure B***
PS5VD3A*	1	5-Volt 3-Amp Power Supply* - ***Figure C***

Figure A

Figure B

Figure C

Limited Warranty Statement

A. Extent of Limited Warranty

1. SmartAVI, Inc. warrants to the end-user customers that the SmartAVI product specified above will be free from defects in materials and workmanship for the duration of 1 year, which duration begins on the date of purchase by the customer. Customer is responsible for maintaining proof of date of purchase.
2. SmartAVI's limited warranty covers only those defects which arise as a result of normal use of the product, and do not apply to any:
a. Improper or inadequate maintenance or modifications.

b. Operations outside product specifications.

c. Mechanical abuse and exposure to severe conditions.
3. If SmartAVI receives, during Applicable warranty period, a notice of defect, SmartAVI, Inc. will, at its discretion, replace or repair the defective product. If SmartAVI is unable to replace or repair the defective product covered by the SmartAVI warranty within a reasonable period of time, SmartAVI shall refund the cost of the product.

4. SmartAVI shall have no obligation to repair, replace or refund unit until customer returns defective product to SmartAVI.

5. Any replacement product could be new or like new, provided that it has functionality at least equal to that of the product being replaced.

6. SmartAVI limited warranty is valid in any country where the covered product is distributed by SmartAVI.

Section 1 Setting up the SignWare-Pro Server Software

1. Getting Started

This quick setup guide will instruct you on how to install and setup the SignWare-Pro software onto your Server (Host PC) and how to setup the SignWare-Pro client.

To ensure proper installation of the server software;

- Please make sure you are running Windows XP Professional with Service Pack 2 or 3, Windows 2003 or Windows Vista.
- Make sure that you are logged in as the system administrator.
- Turn off the Windows firewall. (see ***Figure 1.1*** for Windows XP) You can alternately select SignWare-Pro under the exceptions tab. (***Figure 1.2***)
- If you do not wish to turn off your firewall, please refer to Part 7.1 of the manual.

Windows Firewall
General
Exceptions
Advanced
Your PC is not protected: turn on Windows Firewall
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.
On (recommended)
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.
Don't allow exceptions
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.
Off (not recommended)
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
What else should I know about Windows Firewall?
OK
Cancel

Figure 1.1

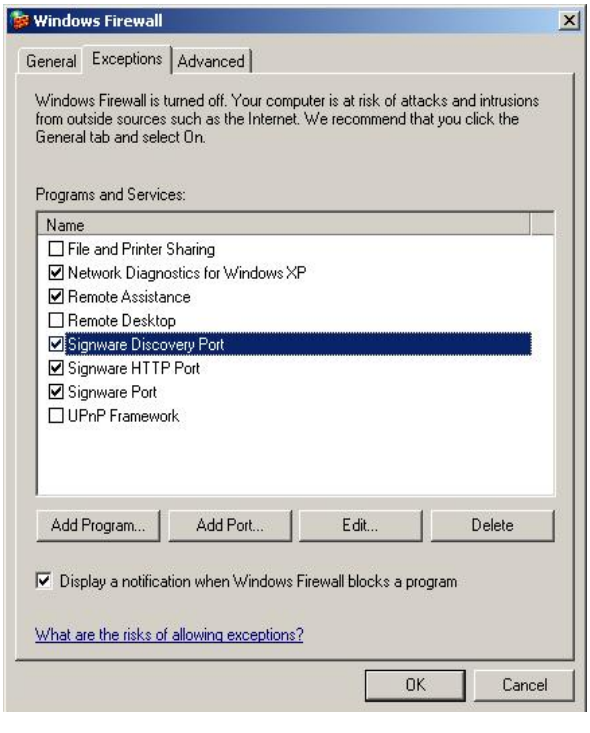


Figure 1.2

2. Installing SignWare-Pro Server

SignWare-Pro Server requires a unique serial number to be installed. You will find your key on back of the SignWare-Pro Server CD sleeve. In addition, you must complete the online registration for your copy of SignWare-Pro Server. If you do not register within the thirty-day window, your SignWare-Pro Server software will become disabled. A registration window will open automatically. If you wish to register at a later date, simply select Help/Registration. For more help on registration, refer to Part 13 of the manual.

1. Double click on the SignWare-Pro Server Setup executable. Read the License Agreement then click 'I Agree'
2. Enter in your name and organization and enter the unique serial number (IN ALL CAPS) provided to you. **Important:** When entering the serial number, please make sure it is typed with ALL CAPS, or registration will not give you a 30 day grace period. (***Figure 2.1***)
3. The next window will be to choose components, make sure "SignWare-Pro Server" is checked. (***Figure 2.2***)
4. Choose the installation location you would like to install the SignWare-Pro Server. Click 'Next'.
5. Before the installation completes, you will be asked to create a password for the Administrator account. You must sign in as the Administrator for the first time you load the SignWare-Pro Manager. For more information on the User Manager, go to Section 2 of the manual.

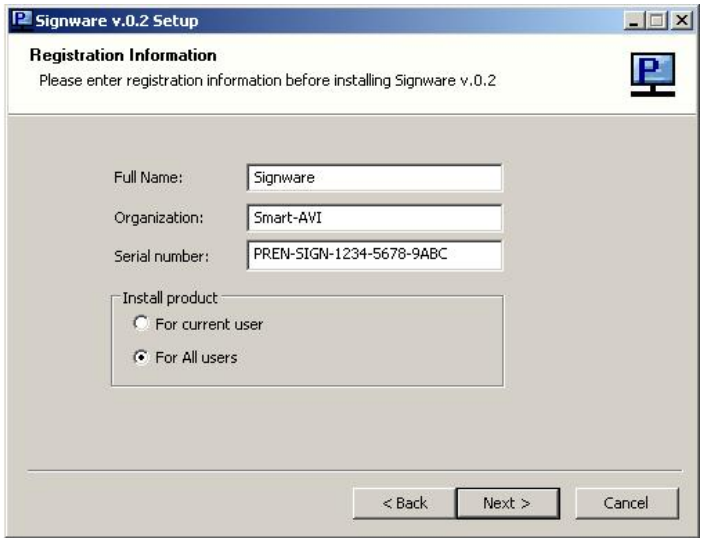


Figure 2.1

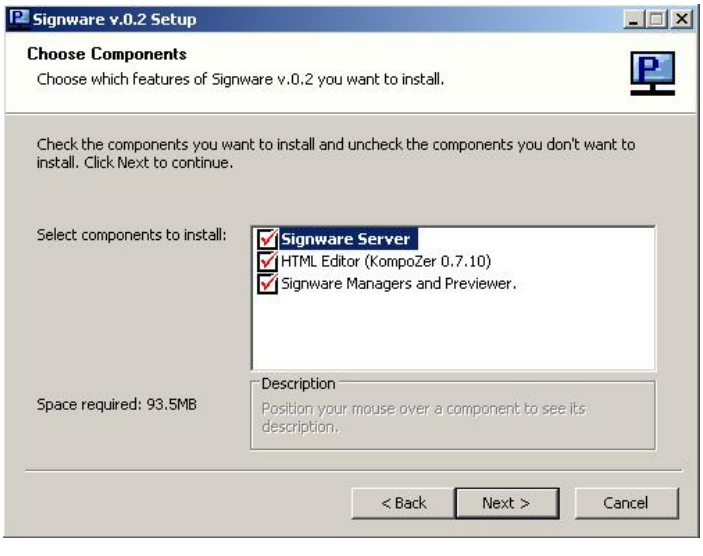

Signware v.0.2 Setup
Choose Components
Choose which features of Signware v.0.2 you want to install.
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
Select components to install:
Signware Server
HTML Editor (KompoZer 0.7.10)
Signware Managers and Previewer.
Description
Position your mouse over a component to see its description.
Space required: 93.5MB
< Back
Next >
Cancel

Figure 2.2

3. Setting up the SignWare-Pro Client

1. Setting up the SignWare-Pro Client
   a. Connect the power supply cable to the SignWare-Pro client and plug the cable into a grounded power outlet. (***Figure 3.1***)
   b. Attach the HDMI from the monitor or display to the HDMI port on back of the client.
   c. Connect the SignWare-Pro client to a router using CAT5 cable. (If you will be using a wireless router, please refer to your router's manual for additional information).

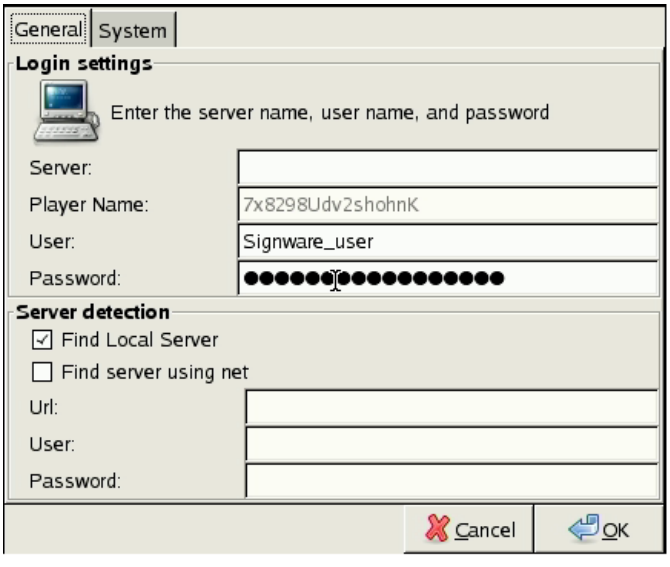
Turn on the display connected to the client.
The monitor should display the SignWare-Pro splash screen.

Once the kernel has booted, you will be brought to a black screen with a blue status bar at the bottom.

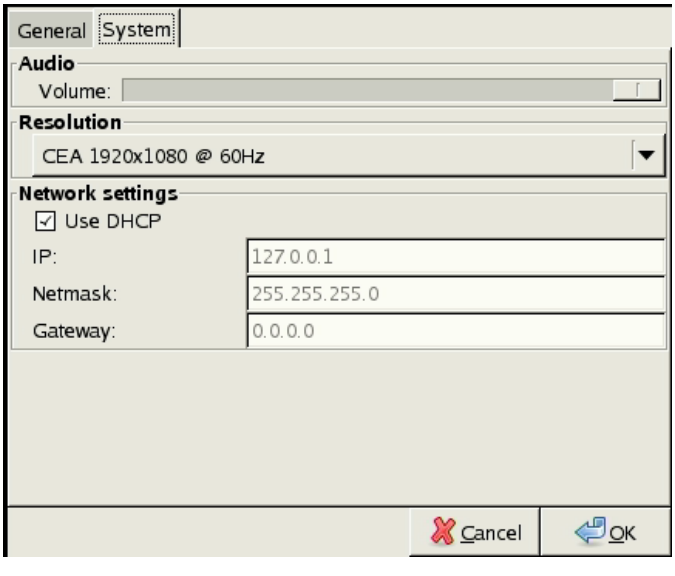
Figure 3.1

4. Navigating the SignWare-Pro Client

1. Once you've logged in, connect the keyboard and press CTRL+ALT+2 to open the SignWare-Pro Configuration Panel (***Figure 4.1***).



(***Figure 4.1***)



(***Figure 4.2***)

2. Network
   Settings i.
   DHCP
   - Check this box if you would like your SignWare-Pro Client to receive an IP Address from your network.
   - If you need to set a Static IP, uncheck this box to manually set your IP, Netmask,

Gateway, and DNS.

3. Resolution Settings (***Figure 4.2***)
    - Use the 'Tab' key (***Figure 4.2***) to tab to the Resolution drop down box and use the arrow keys to scroll through the different selections. Press the 'OK' button to select the resolution.

4. SignWare-Pro Server Settings
    i. **Server**
    - If your SignWare-Pro Client is unable to find your Server on the network, manually type in the IP Address of your Server.

    ii. **User**
    - This is the default username that is linked to your Server. Please leave this setting as is.

    iii. **Password**
    - This is the default password that is linked to the User. Please leave this setting as is.

5. Updating the SignWare-Pro Client

In an effort to produce the best digital signage system on the market, we will continue to make upgrades to our products.

To update to the newest version of the SignWare-Pro client, you will need to do the following;

1. Unpack the SignWare-Pro update file onto your server.
2. In Task manager create “Update” task and point to update.img as the task data. (***Figure 6.1)*** **Important:** update.inf should be placed in the same directory as flash.img or the update will not work.
3. In Task manager, create a new schedule and add the update task you created in Step 2. (***Figure 6.2***)
4. Right-Click the schedule and select ‘Start’ to run the update.
5. After updating, the SignWare-Pro client will reboot automatically.
6. You may need to reconfigure client settings again.

IMPORTANT: DO NOT TURN OFF OR UNPLUG THE CLIENT during this operation. If you do so, the SignWare-Pro client will no longer operate and you will need contact customer support for a new system file.

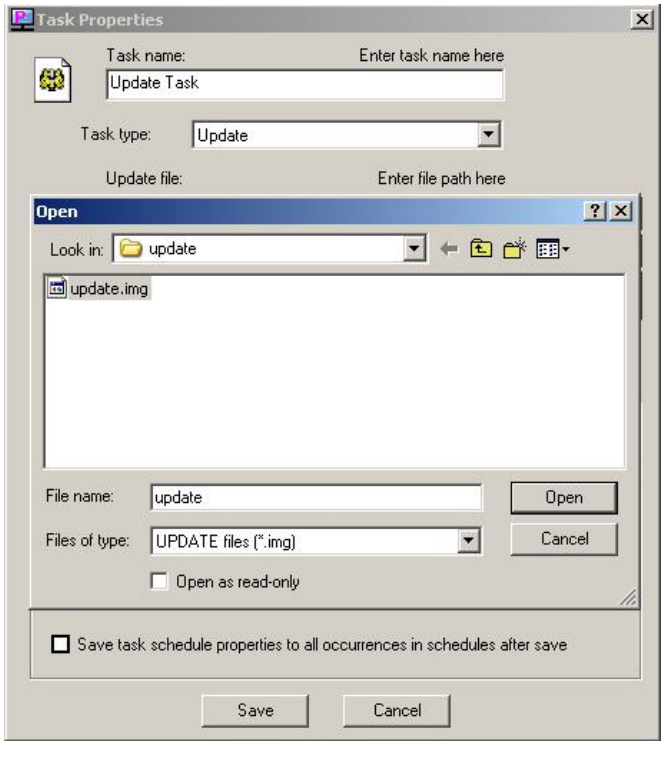


Figure 6.1

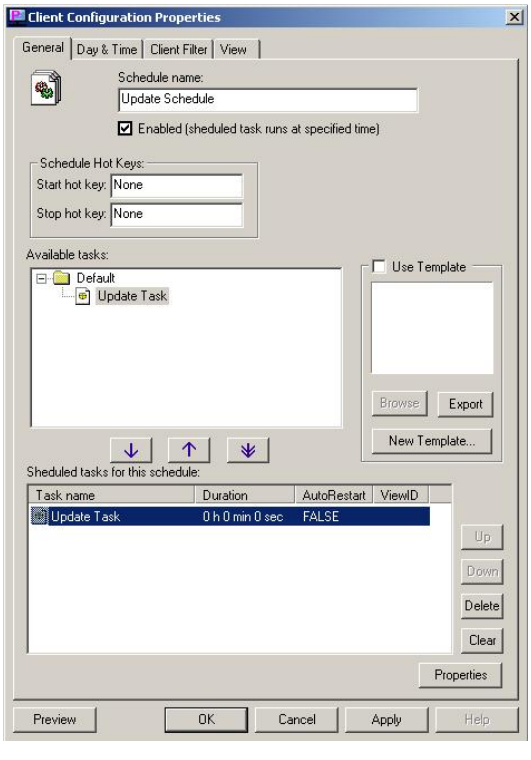


Figure 6.2

Section 2 Using the SignWare-Pro Server Software

6. Running SignWare-Pro Server Software for the first time

1. Double click on the SignWare-Pro Server Station Manager icon either on your desktop or start menu.
2. You will first be prompted with a 'Server Logon settings' dialog box. The default IP address is 127.0.0.1. In the user name and password fields use the new Administrator user and password you created in the installation process and click 'OK'. (***Figure 6.1***)
3. Once the SignWare-Pro Server Station Manager is loaded. You will see the following;
   a. Connected SignWare-Pro clients
   b. Loopback IP. (127.0.0.1)
   c. Your user name and password. Click Save Password to stay logged in. (***Figure 6.2***)

Figure 6.1

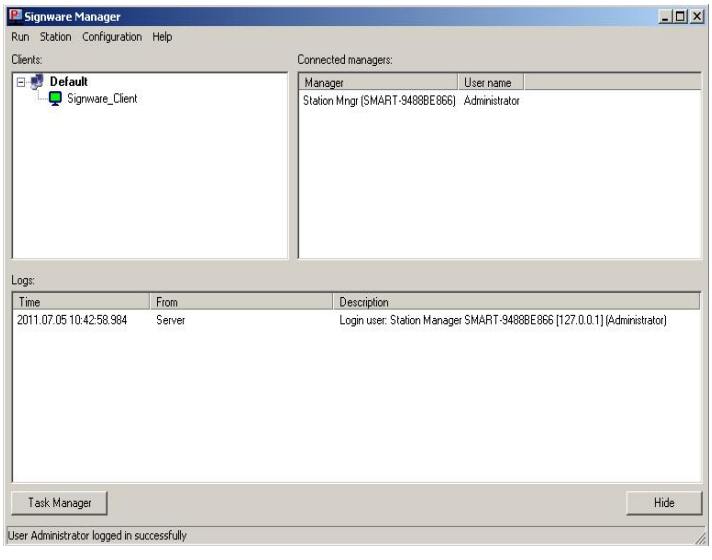


Figure 6.2

6.1 Firewall

SignWare-Pro uses the TCP/IP suite to communicate between the server and client, proper settings of your firewall and routers will be needed.

After the installation of SignWare-Pro Manager, and the initial start of the software, you will be asked to by the windows firewall to unblock, or keep blocking SignWare-Pro Manager. You want to make sure you unblock it.

The port used for communication is ‘13325’ UDP and TCP. This will be used when forwarding ports in your router, when using SignWare-Pro via WAN.

6.2 User Manager

Our user manager now allows SignWare-Pro users to manage and control their own user database. Windows logins are no longer required. Each user created is allowed a set of permissions.

The user rights are described as followed:

- **Administrator**: Full access to everything, only user that is able to create and manage users.
- **Task Manager**: Allowed to access and control the task manager and selectable clients assigned by the administrator.
- **Station Manager**: allowed to access and control the station manager.
- **Client**: used for the SignWare-Pro clients to connect to the signage server only.

During the installation, you will be asked to create the administrator password. If you click 'Cancel', you will be assigned default usernames and passwords. (***Figure 6.2.1***)

To have different users log in, always click on 'Configuration' then 'Login server.' Click 'Save Password' while logged in. To log out, uncheck 'Save Password'. (***Figure 6.2.2***)

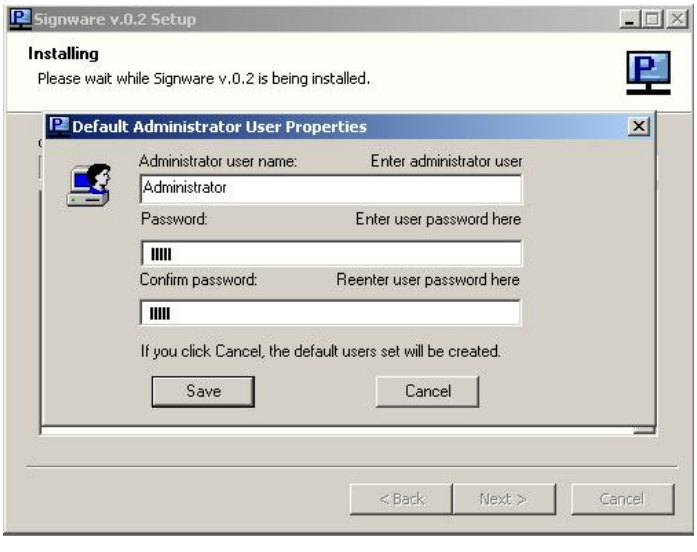


Figure 6.2.1

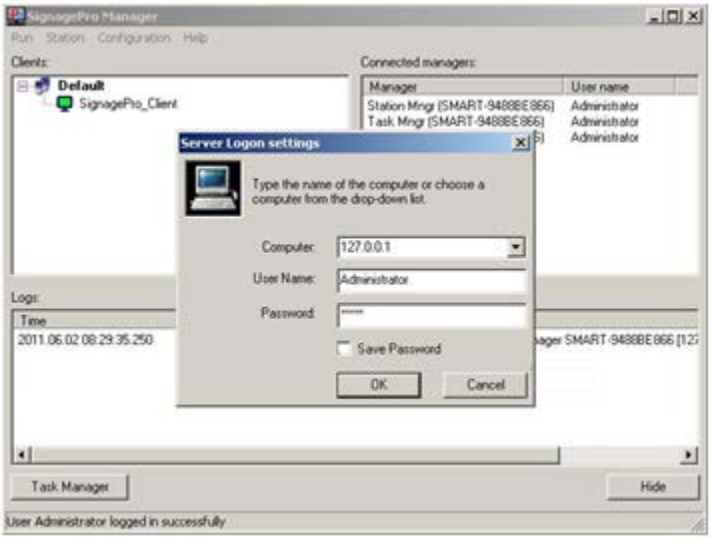


Figure 6.2.2

After you log into the SignWare-Pro manager, you can create new users by clicking 'Run,' then clicking on 'User Manager' (***Figure 6.2.3***)

To create a new user, right click or click on 'User' then 'New User.' The user properties window will open. Here is where you enter in your new user information (***Figure 6.2.4***):

- **User name**: The name of the new user.
- **Full name**: The real name of the user.
- **Description**: The description of the user.
- **Password**: The password for that user.
- **User rights**: Select the rights you want this user to have.

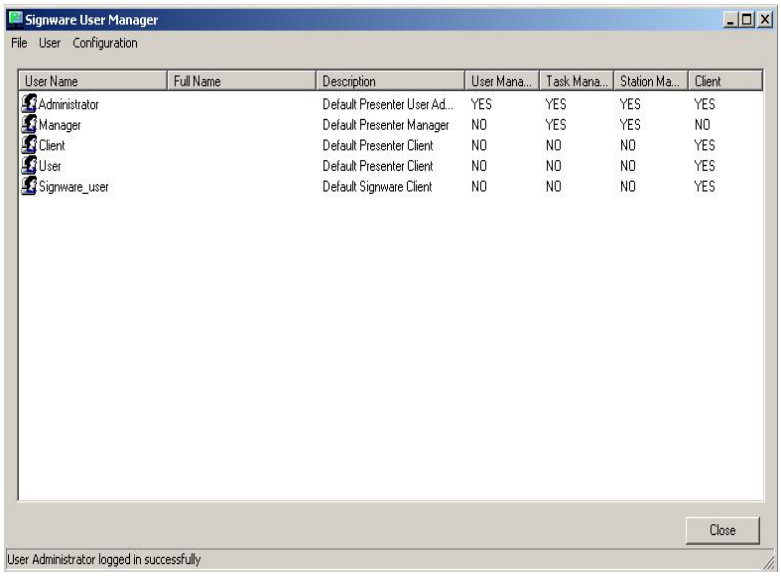


Figure 6.2.3

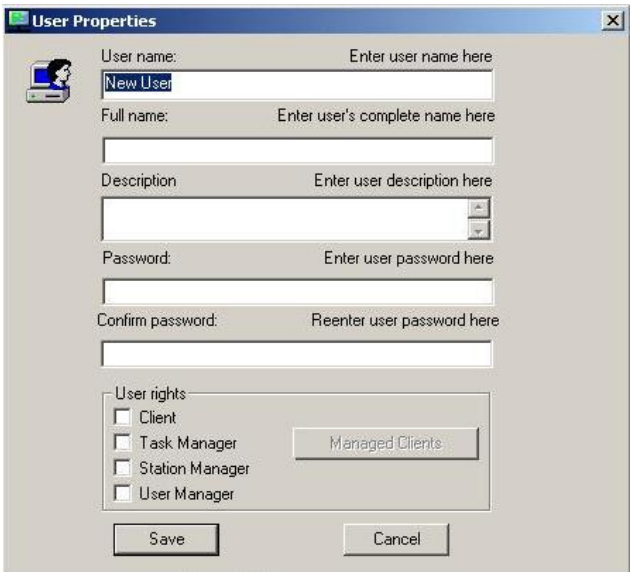


Figure 6.2.4

Click 'Save'. You will then see the new user in the list. (***Figure 6.2.3***)

7. Task Manager

The main feature of SignWare-Pro is the Task Manager. This is where you set up and manage all of your presentations.

To open the Task Manager:

- Select Run then click on the Task Manager. (***Figure 7.1***)

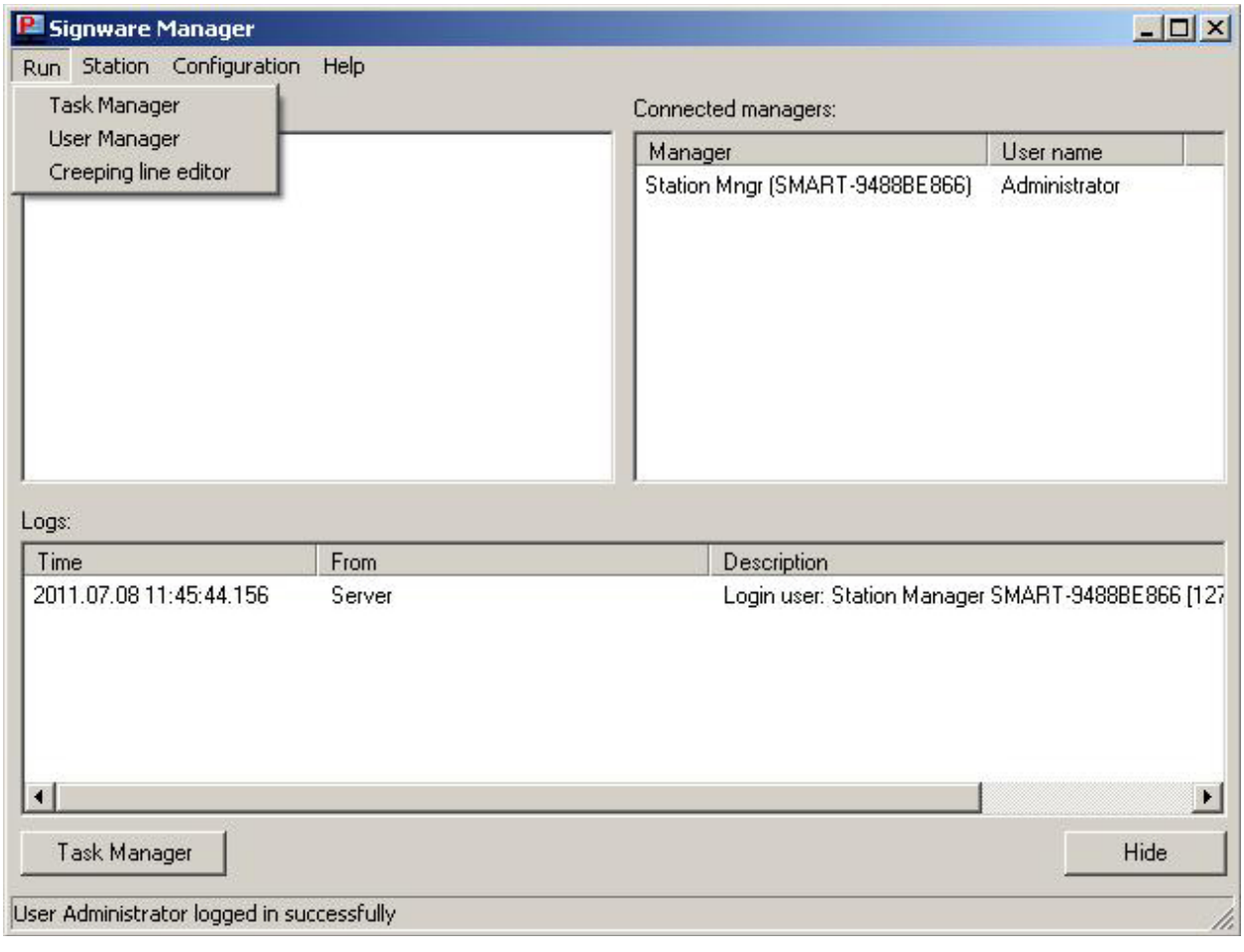


Figure 7.1

Once you are in the Task Manager you can begin setting up your presentations.

Tasks: are individual presentations such as movies, PowerPoint presentations or Flash files; in order to run a Task it must be placed into a schedule.

Schedules: are used to schedule a Task or a series of Tasks to run together at a specific time and day.

Setting up Tasks: In the Task menu option, you can create, delete, and view the properties of all the files you wish to run on SignWare-Pro.

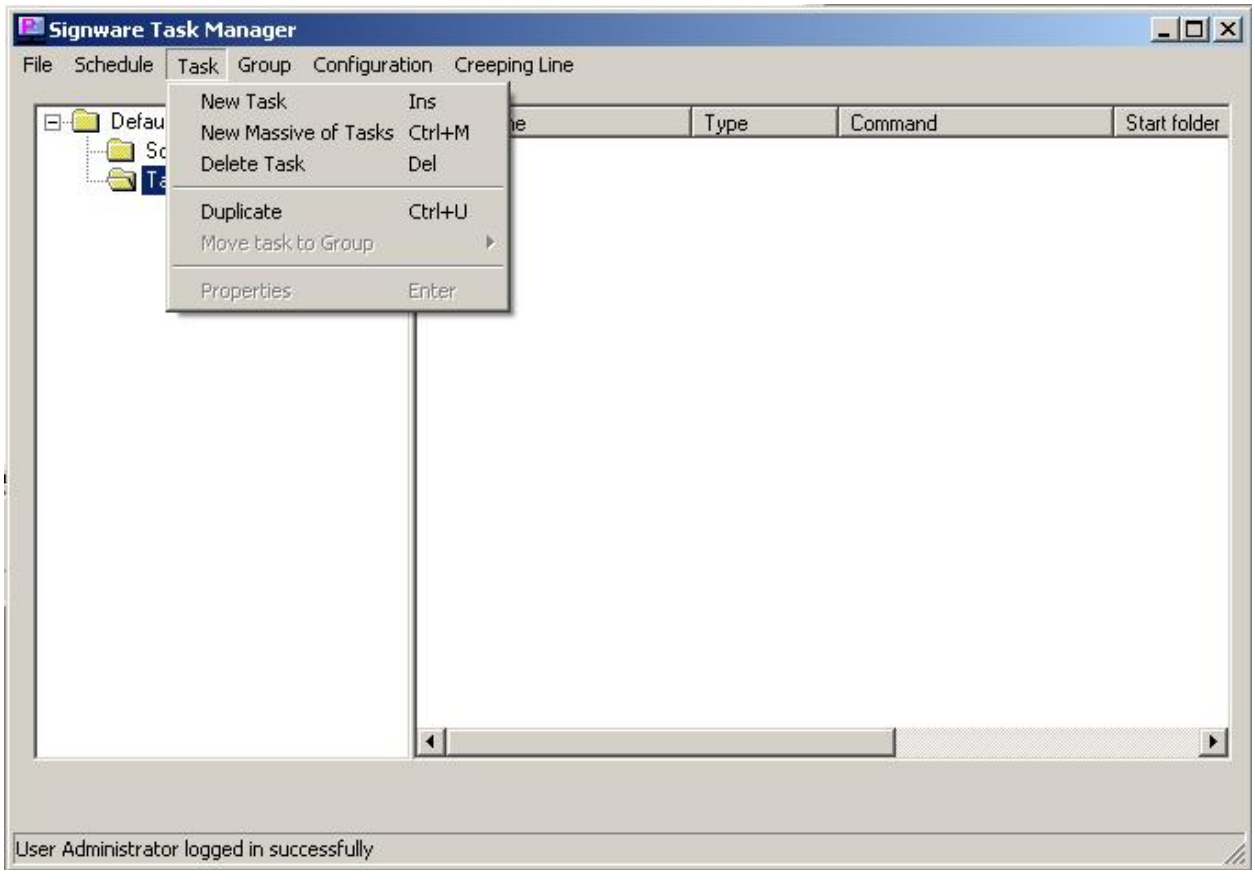


Figure 7.2

To create a new task:

1. Select Task and select 'New Task'. (***Figure 7.2***)
2. Select the type of file you are going to use. (***Figure 7.3***)
3. Select the file located on your hard drive. Once the task has been added, you can configure the following properties;
    a. **The duration of the task** (setting the duration to 0:0:0 will cause the program to run indefinitely.
    b. **Operation on End of Task**,
        i. Here you can set what will happen upon completion of the Task if it is included in a schedule.
        ii. **Run Next Task** will open up the next task in the schedule upon completion.
        iii. **Restart Current Task** will cause the task to repeat itself.

Note: You can override these configurations in the 'Schedule Properties' menu. (Part 8)

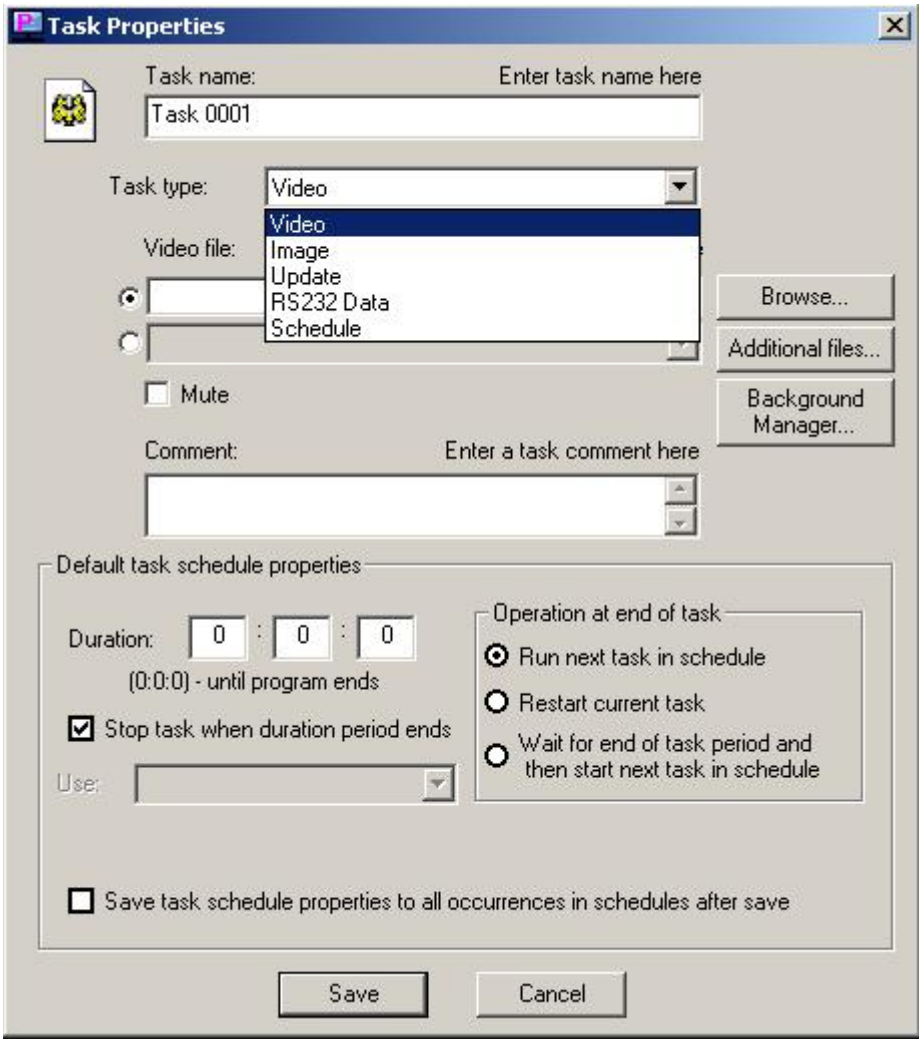


Figure 7.3

Creating Schedules

A schedule is where you combine all of the different tasks that you've created in step 8 and put them into one place. From here you create the programming schedule. You can select a variety of task to run at specific times, run once, or loop continuously. If you use the template feature (described in step 10) you will select which tasks will run in which window.

Schedules can be as complex or as simple as you like. You can control hundreds of tasks to run at specific times or simply have one or two tasks set to loop continuously.

8. Creating and working with schedules

1. In the Task Manager select ‘Schedule’ and click ‘New Schedule’. The Schedule Properties Dialog will appear. (***Figure 8.1***)
2. In the ‘General’ tab give your schedule a name. (optional)
3. Begin populating the schedule with various tasks. These tasks can be videos, images, web pages, PowerPoint Presentations, etc.
   a. To do this you must use your mouse to highlight one of the tasks you created in the previous step. (***Figure 8.2***)
   b. With the task highlighted click the arrow just to move the task into your schedule. (***Figure 8.2***)
   c. The task within the schedule will run in order starting from the task at the top of the list. You can arrange tasks by selecting them and using the up and down buttons.
   d. You also have the option of deleting the task from the schedule or clearing the schedule entirely.

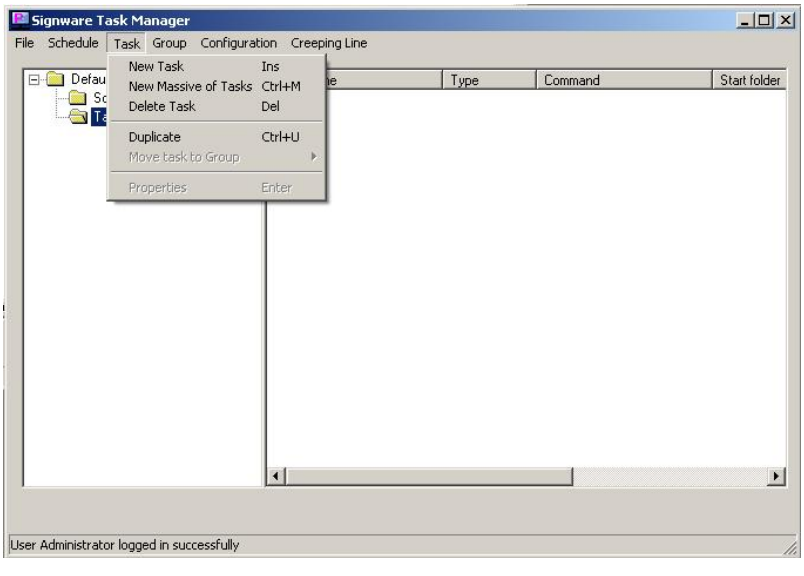


Figure 8.1

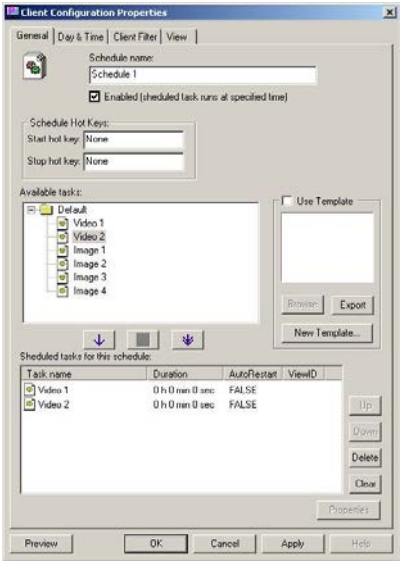


Figure 8.2

Once you have added your tasks to the schedule, you are ready to modify the tasks properties

Modifying Tasks within the Schedule

4. While in the 'Schedule Properties' dialog, double-click the task you wish to modify from the 'Scheduled Tasks' section. This brings up the 'Schedule Task Properties' dialog. From here you are given several options; (***Figure 8.3***)
   a. **Operation on end of task**
      i. **Run next task in schedule:** This option will run the next task that you've added to the schedule once the task has ended.
      ii. **Restart current task:** This will restart the current task once it has finished. Use this selection to loop your task indefinitely.
      iii. **Wait for end of task period and then start next task in schedule:** Use this Selection if you've set a specific duration for the task.
   b. **Duration:** Lets you configure how long you would like the task to be displayed on your screen. Setting this to 0:0:0 will automatically stop the task once it has ended. This is primarily used for video and flash movies.
   c. **Use View:** If you are using templates*, this control lets you select which view to display your task. (***Figure 8.4***)
   d. Click 'OK' to save your settings.

   **More about templates in Part 10.*

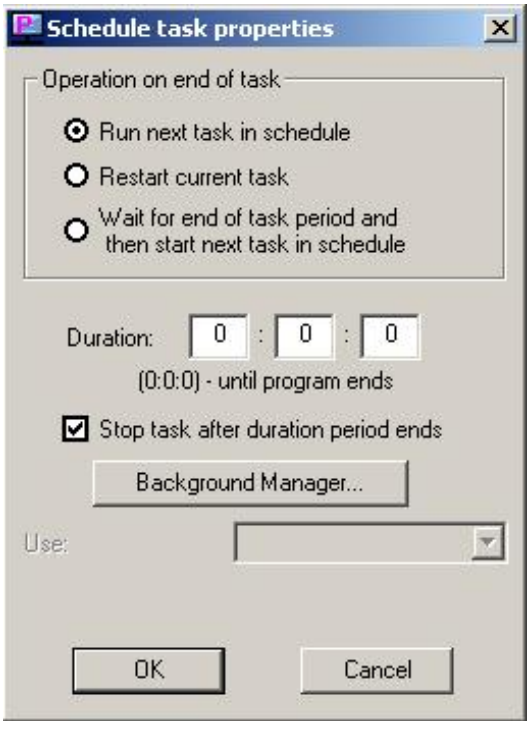


Figure 8.3

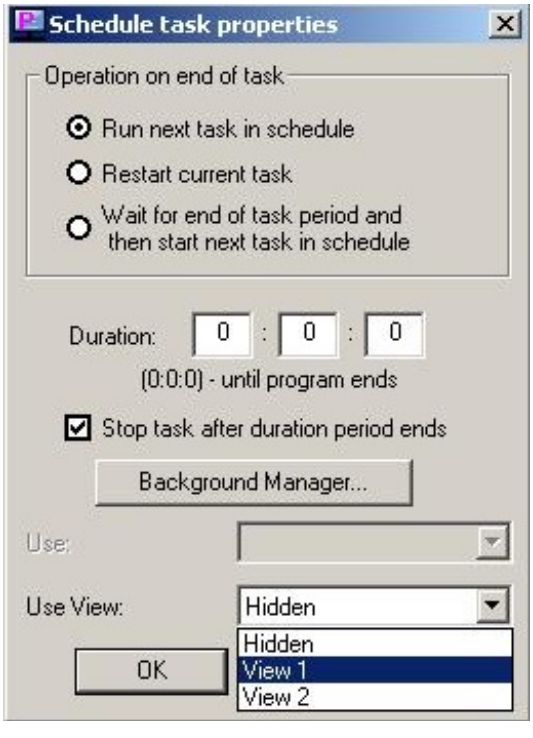


Figure 8.4

5. **Day and Time:** Use the 'Day and Time' tab to control when and for how long the schedule will play. The Day and Time dialog controls the following;
    a. Schedule start type: This feature selects how the schedule will operate. (***Figure 8.5***)
    b. **Run at user logon:** This will start the schedule as soon as the user is logged on.
    c. **Run once:** Select a specific time and date for the schedule to run. (***Figure 8.6***)
    d. **Run periodically:** Set the time and date for your schedule to play. This option allows you to alternately control a variety of schedules.

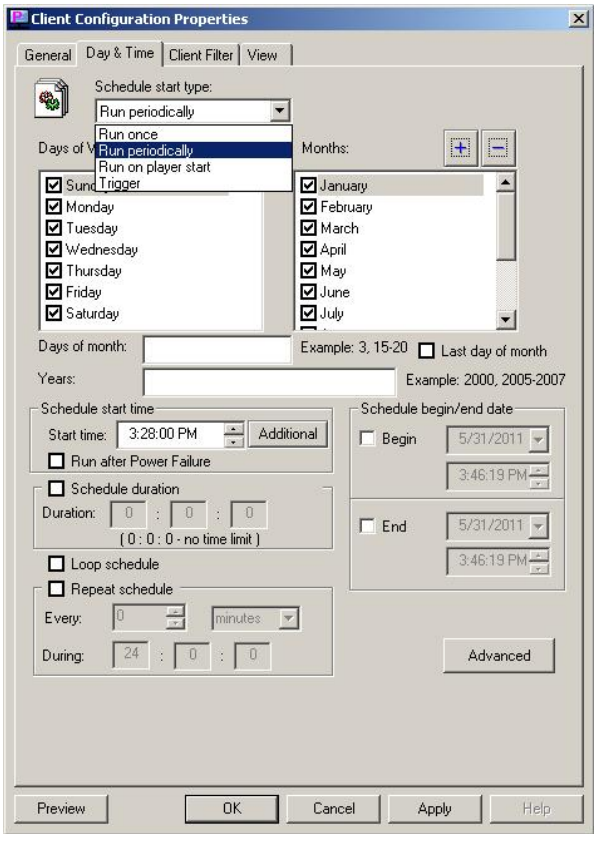


Figure 8.5

Figure 8.6

8.1 Super Schedules

Super Schedules were designed to allow multiple schedules to run in one, also allowing a drag and drop friendly user interface.

To use the Super Schedule, open up the Task Manager and then click on ‘Schedule’ then select ‘New Super Schedule’.

1. In the Setup Schedule tab, this is where you will setup your multiple schedules. Click on ‘Add’. In the window that opened you can name your schedule and select the duration. Then click ‘Ok’. (***Figure 8.1.1***)
2. Select a schedule in the list, then with the media icon, drag and drop it into the blue box. A Task Properties window will appear just like the normal Task Properties. Browse for your media. Click ‘Save’. You can now add more schedules to your Super Schedule. (***Figure 8.1.2***)
3. The Day & Time tab has the same functionality as the one in the normal Schedule. (Part 9)
4. The Client Filter tab will allow you to specify the clients that will download and run your Super Schedule.
5. The View tab must always remain checked on View 1.

Click ‘Ok’ and your new Super Schedule will be shown in the Schedule list.

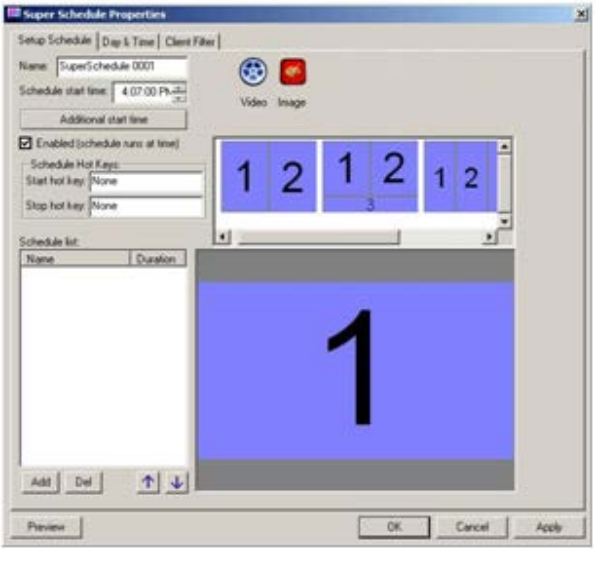


Figure 8.1.1

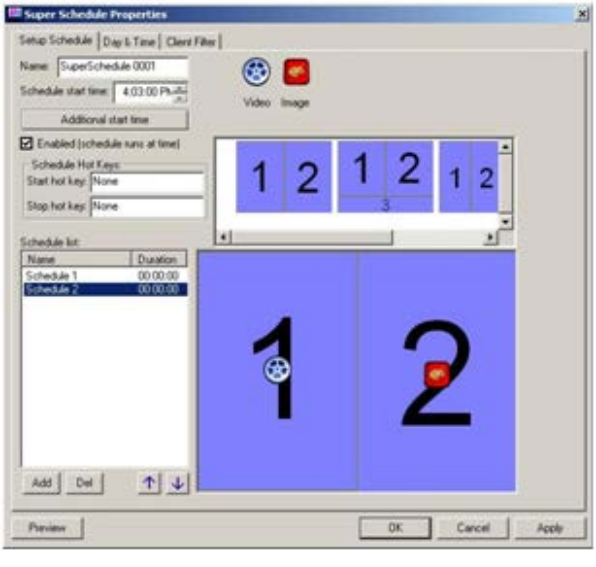


Figure 8.1.2

9. Template Creator

The Template creator is powerful feature of SignWare-Pro. Templates allow users to create and assign regions. This gives you the ability to run several tasks simultaneously on one screen. The result is the integration of high-resolution graphics with dynamic video and scrolling text messages and news feeds.

To create a template and assign tasks:

1. Use your mouse to select the schedule you wish to use for your template.
2. From the schedule menu select “New Template…” (***Figure 9.1***)
3. Select the resolution of your client’s display. (***Figure 9.2***)

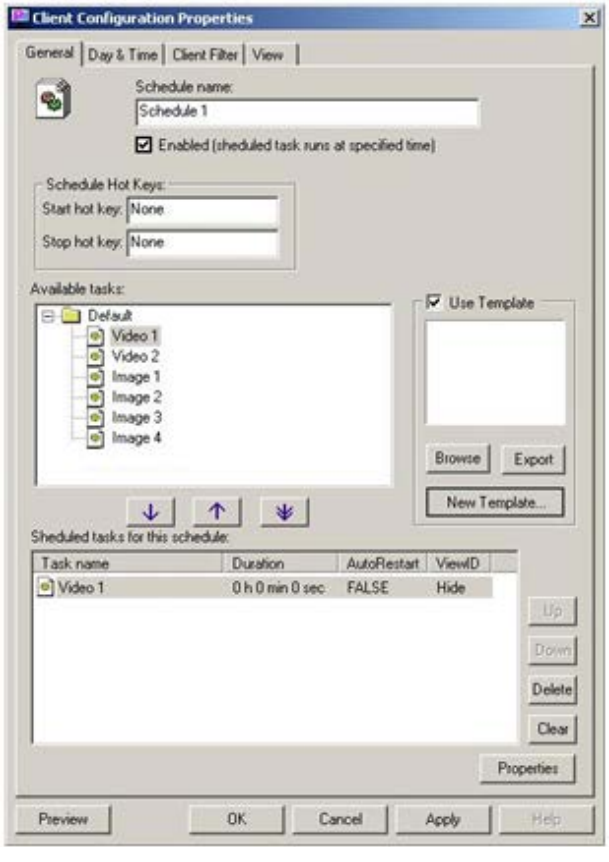


Figure 9.1

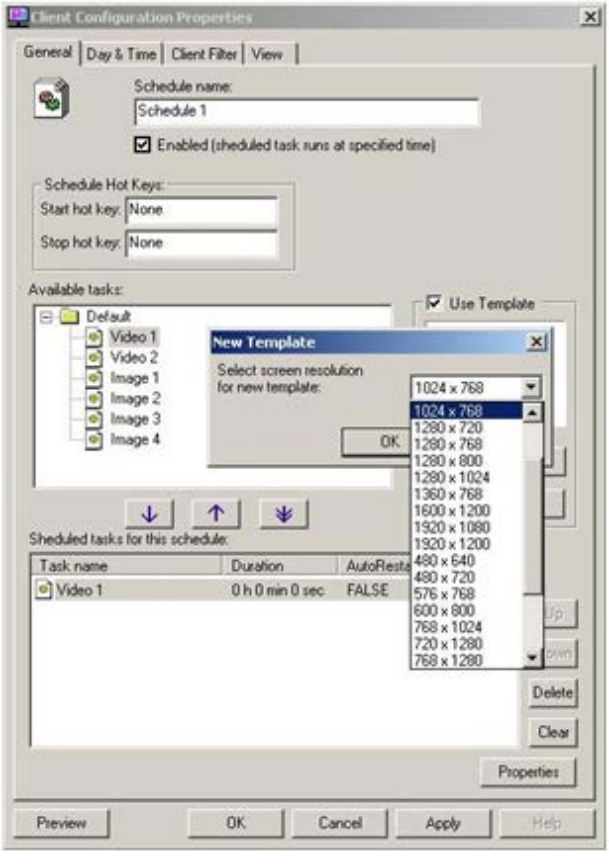


Figure 9.2

4. To create your first region click on the ‘Add View’ icon and drag your mouse across the white display editor. (***Figure 9.3***)

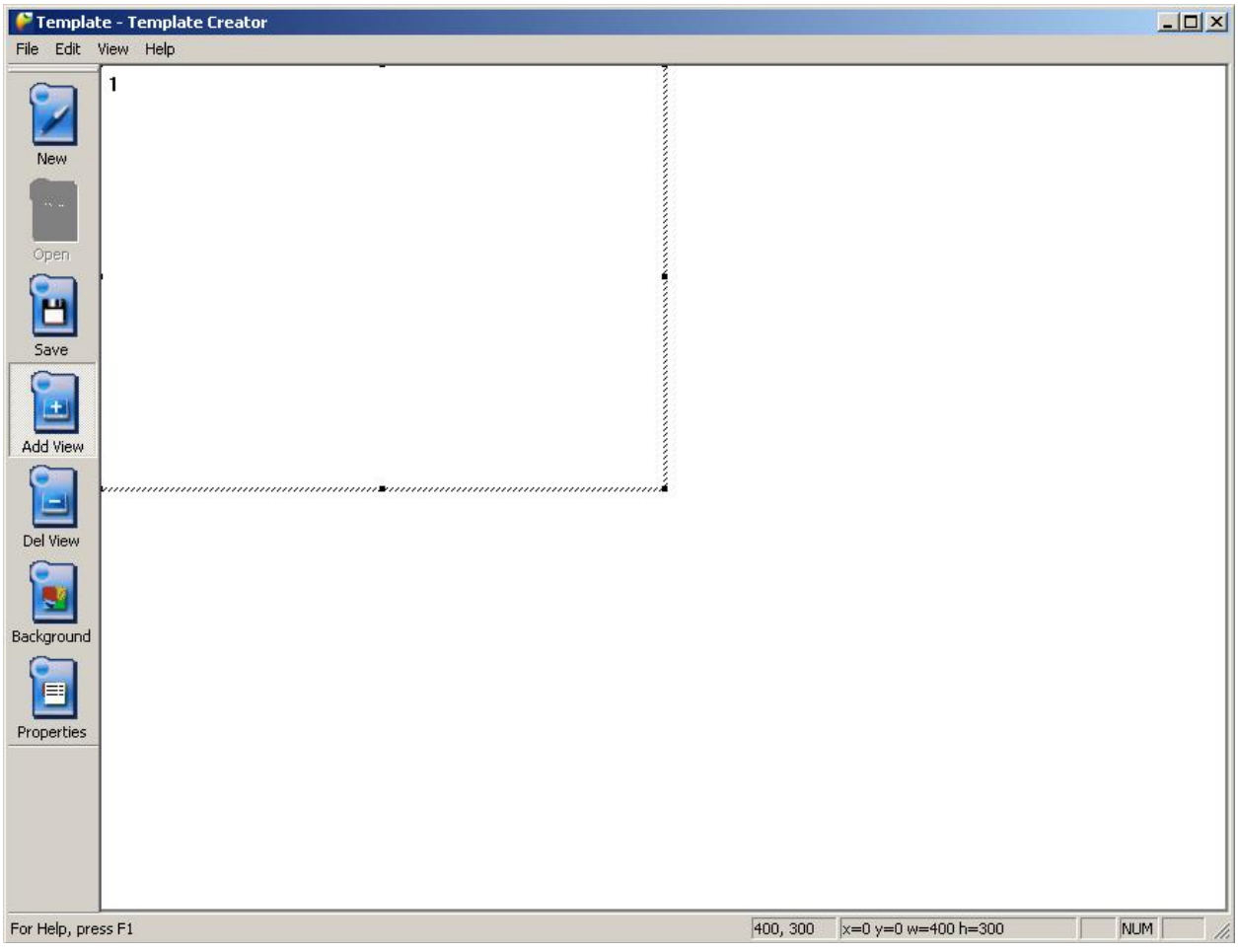


Figure 9.3

5. You may continue adding, deleting, resizing, and moving regions until you are satisfied. (***Figure 9.4***)

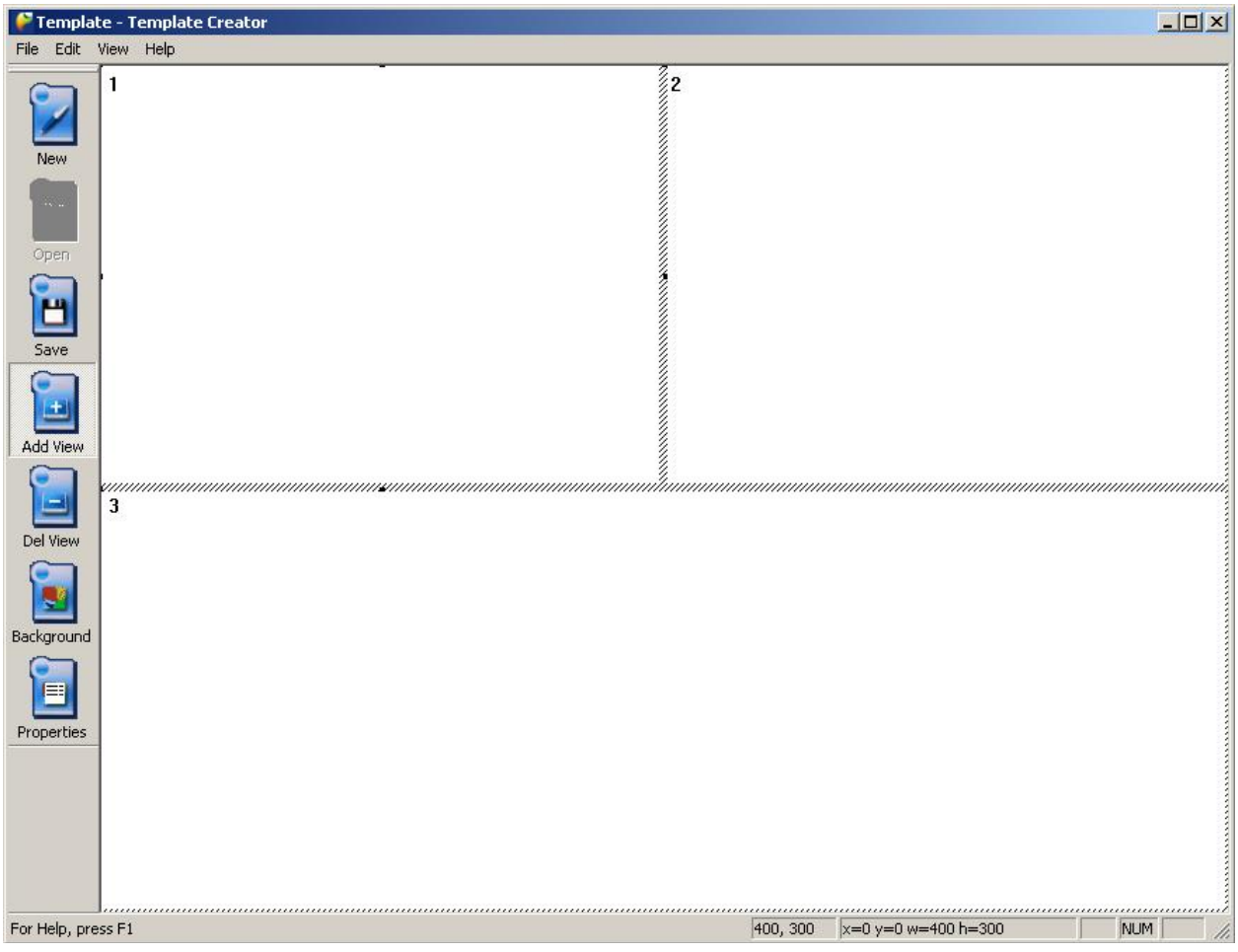


Figure 9.4

6. You can also assign a background image to your layout by clicking the ‘Properties’ icon and selecting an image from your hard drive. (***Figure 9.5***)

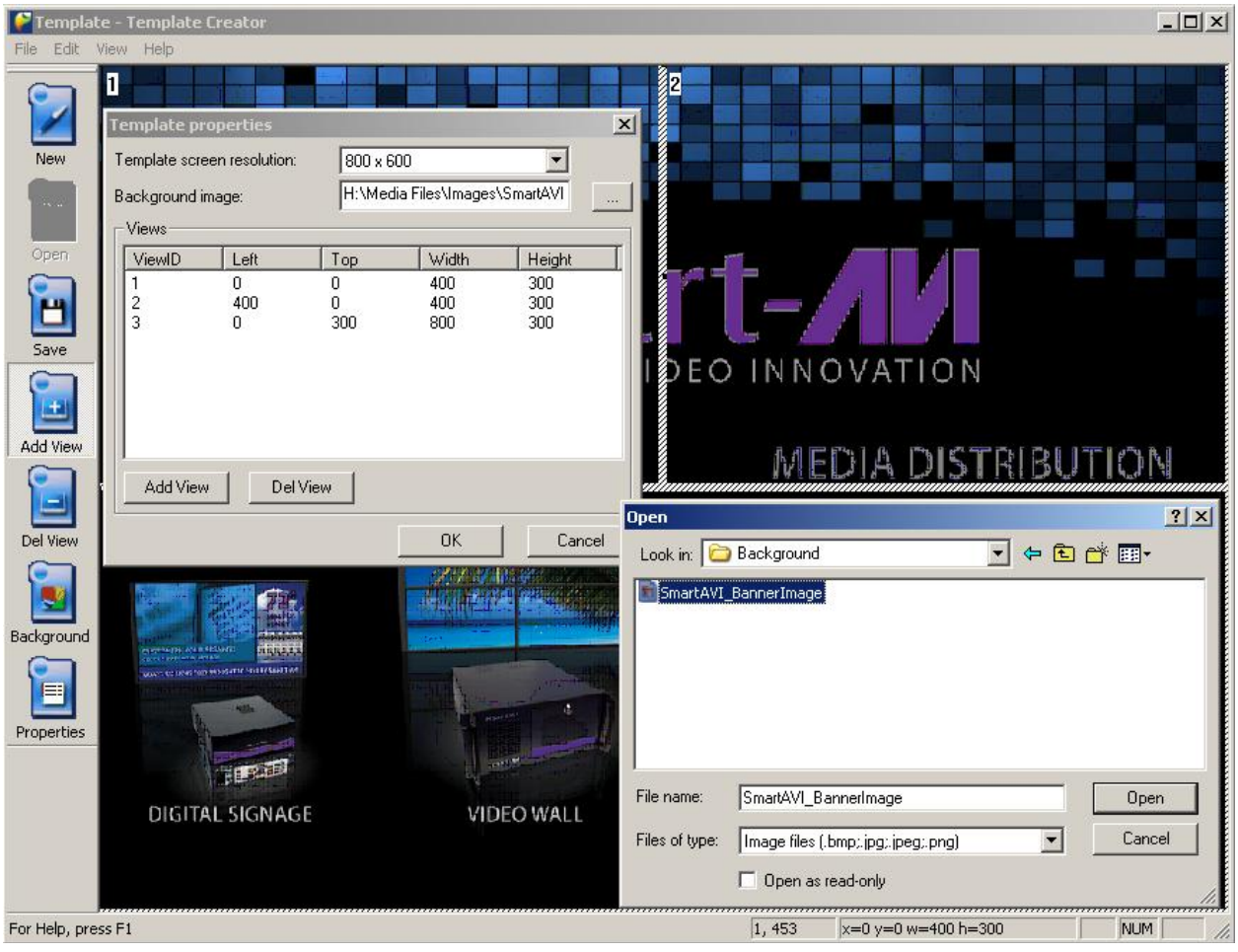


Figure 9.5

7. Once you are satisfied with your layout, save the template file on your computer hard drive. (***Figure 9.6***)

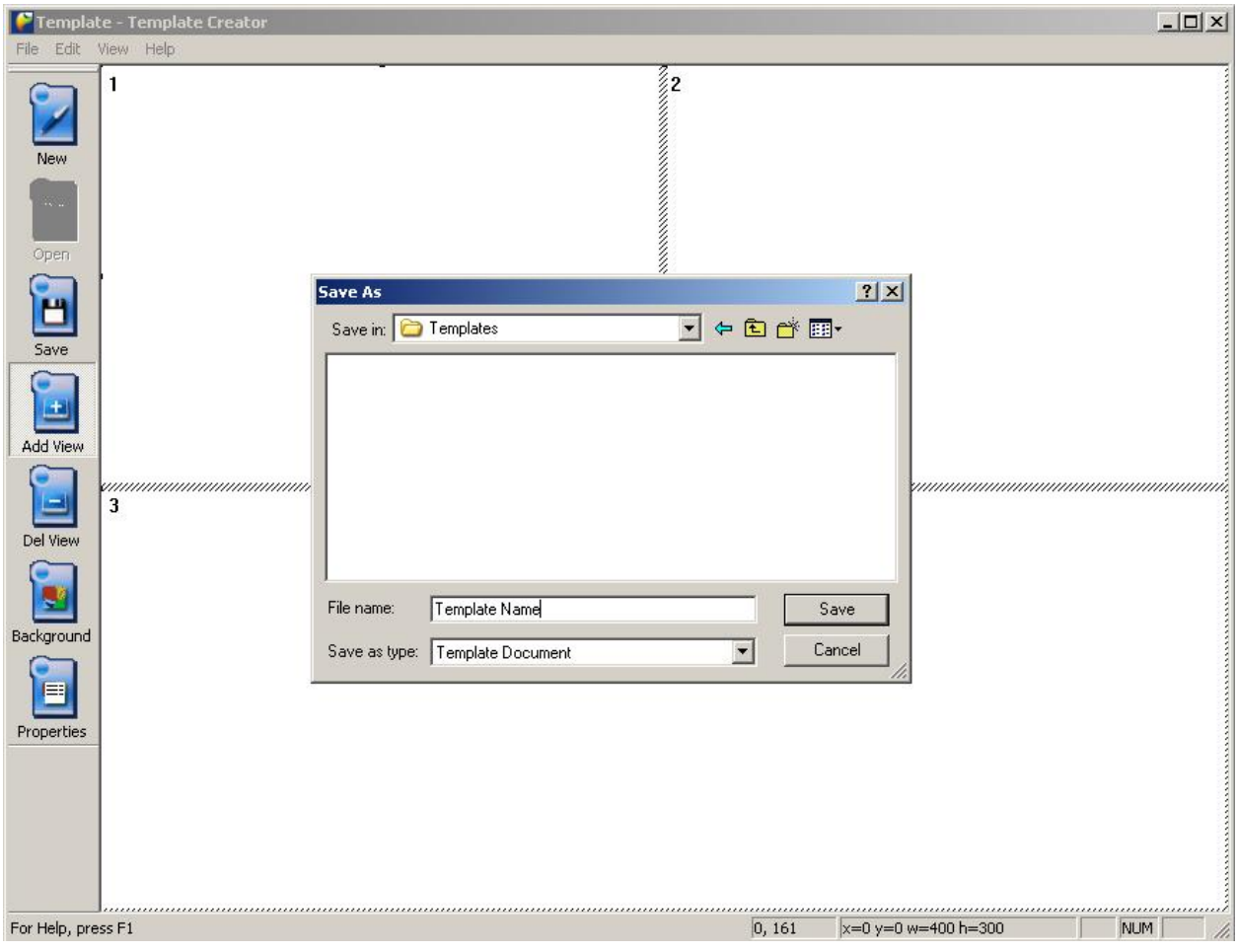


Figure 9.6

Now you are ready to assign views. This is where you select which task will be displayed into the different regions you've just created.

8. From the 'Schedule Properties' dialog double click on any of the tasks for this schedule. This will bring up the 'Schedule Task Properties' dialog. (***Figure 9.7***)

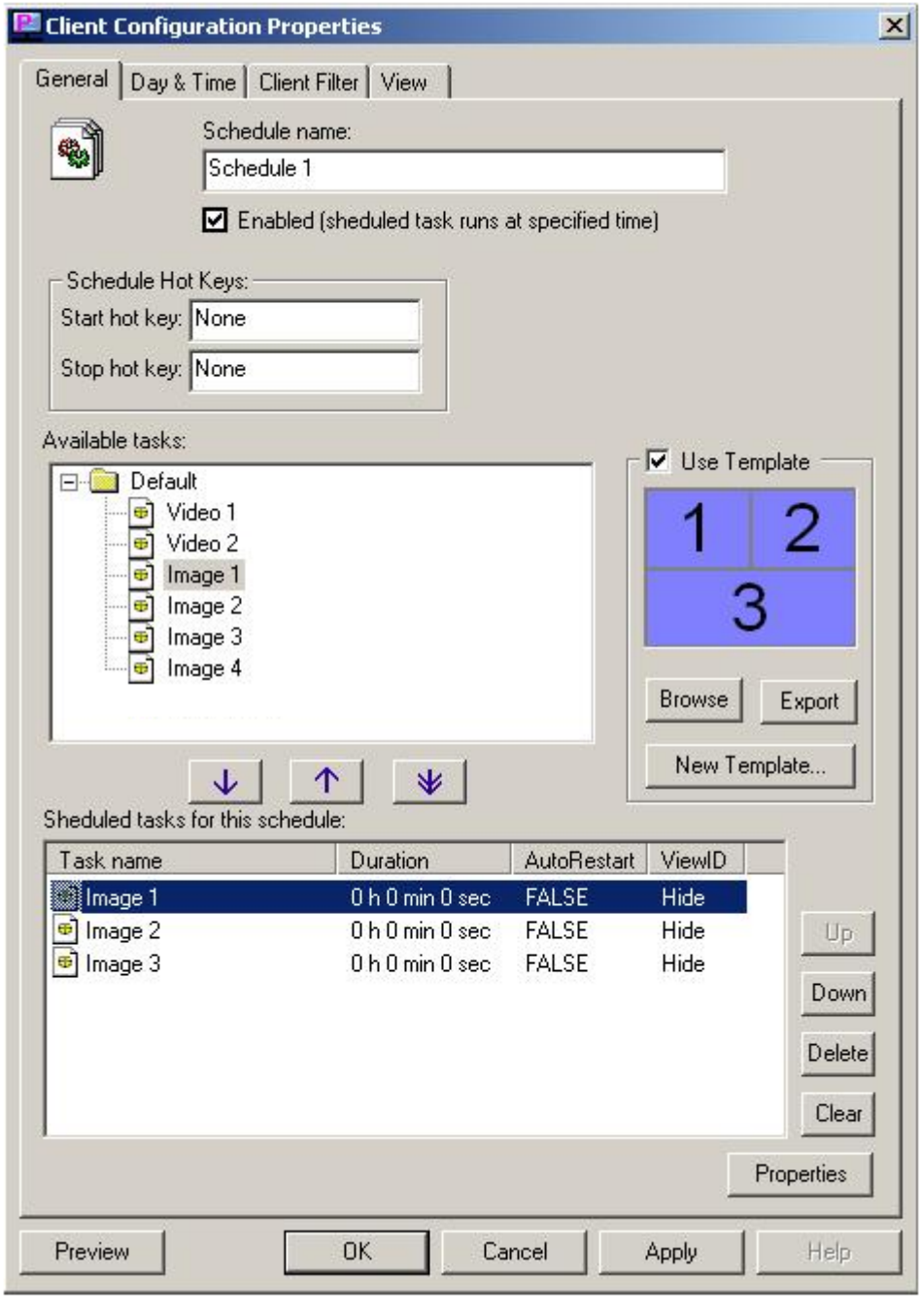


Figure 9.7

9. Select the view from the dropdown menu you where you would like the task displayed. Then click “ok” (***Figure 9.8***)

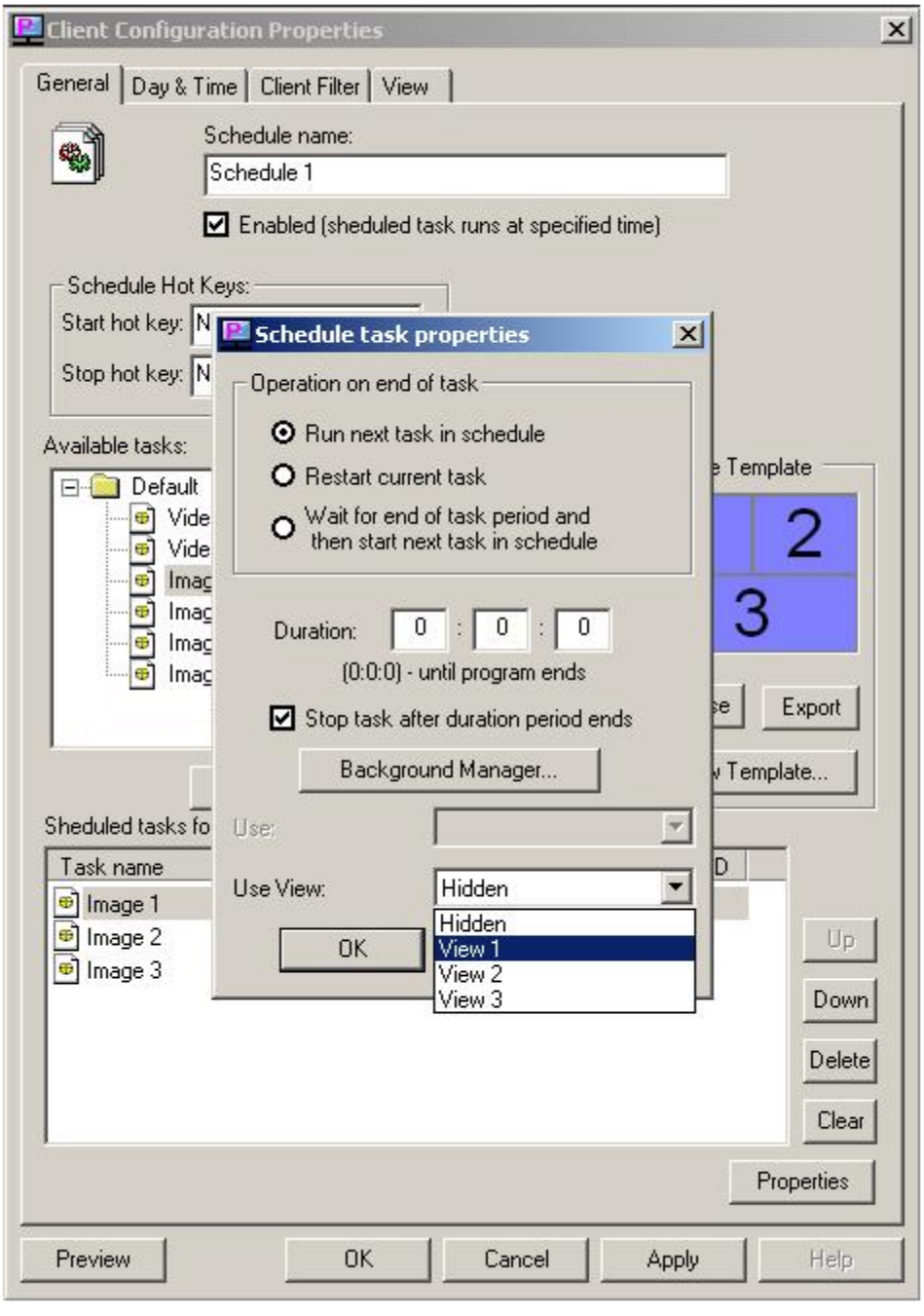


Figure 9.8

10. Creeping Line Editor

SignWare-Pro Creeping Line Editor enables you to create a scrolling marquis anywhere on your screen. You can use RSS feeds, text from a file, or simply type text directly into the editor.

1. Opening the Creeping Line Editor.
   a. From the SignWare-Pro Server Manager select 'Run' and click 'Creeping Line Editor' (***Figure 10.1***)

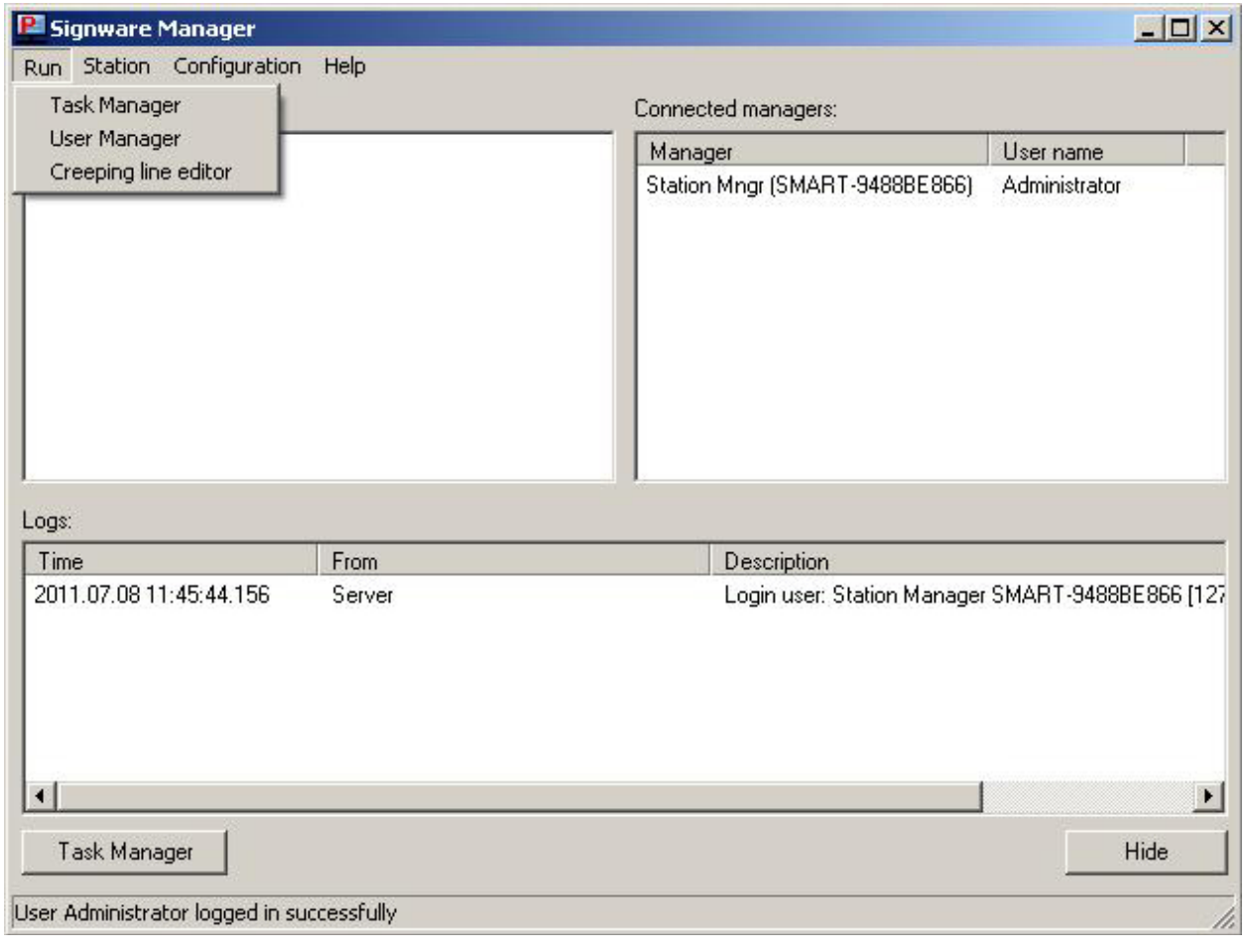


Figure 10.1

2. To create and edit scrolling text, select ‘Options’ and click ‘Creeping line options’ (***Figure 10.2***)
   a. In the ‘General’ tab Creeping Line Property Sheet you are given several options;
   b. Input text: Type your text directly into the editor. (***Figure 10.3***)
   c. Use RSS: Input the URL of the RSS feed of your choice. (***Figure 10.4***)
   d. Control the speed of your scrolling text.
   e. Preview the text directly on your desktop.

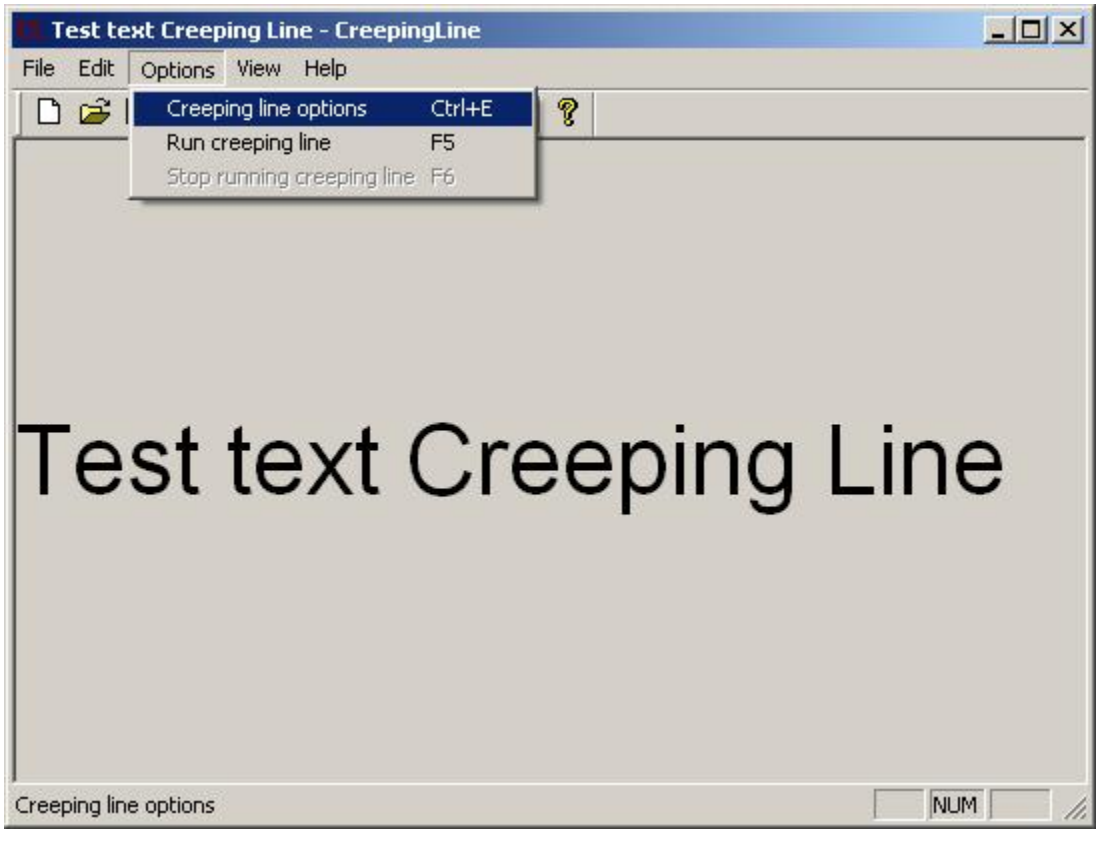


Figure 10.2

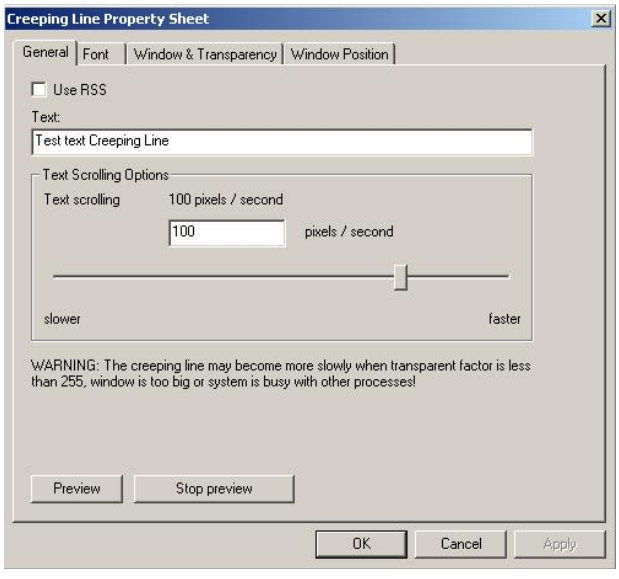


Figure 10.3

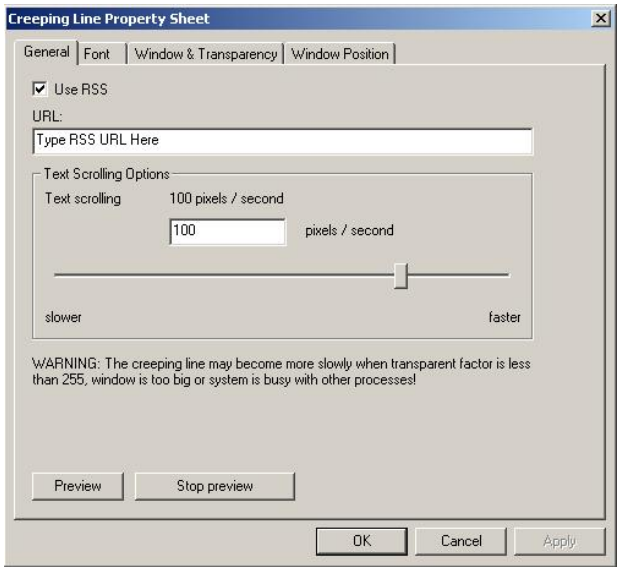


Figure 10.4

3. Customizing fonts
    a. Select the 'Font' tab to adjust the size, style and color of your font. (***Figure 10.5***)

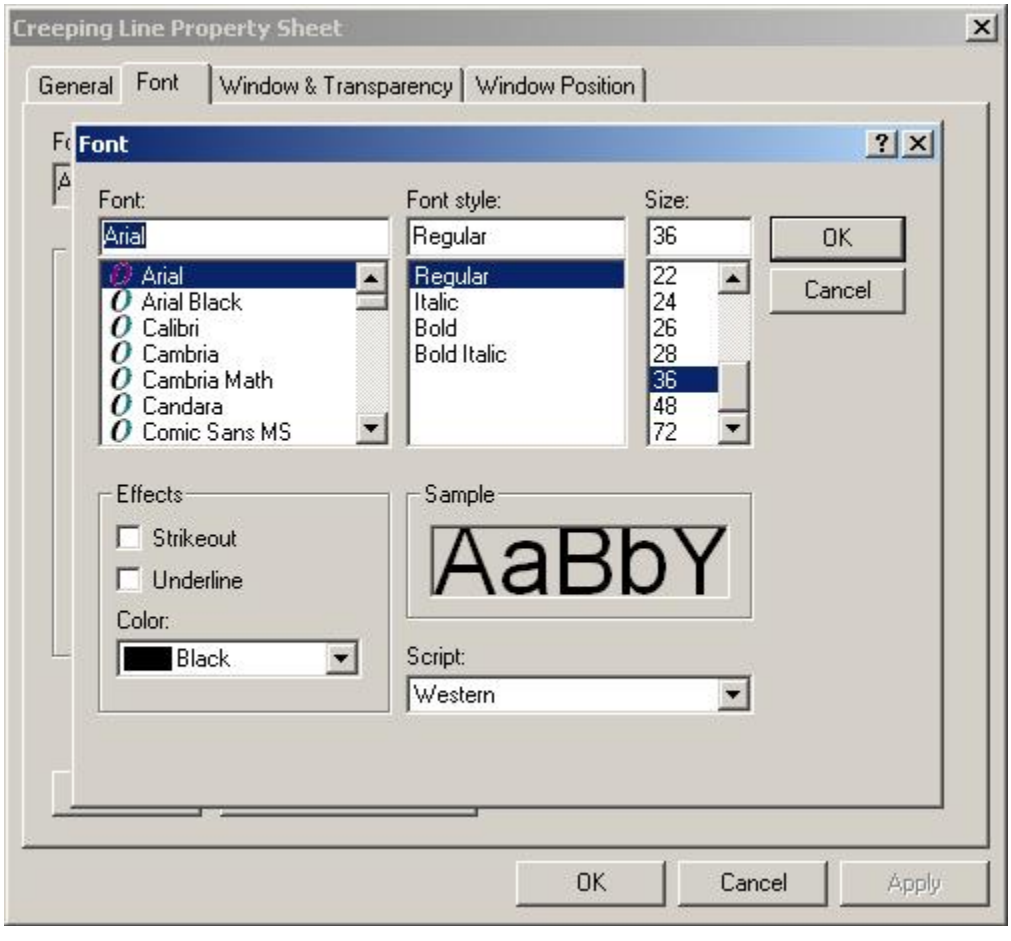


Figure 10.5

4. Adjust window text and transparency. (***Figure 10.6)***
    a. In the Text Window and Transparency dialog box you are given several adjustment options.
        i. Background Color
        ii. Window Border:
            - Transparency
            - Transparent Color

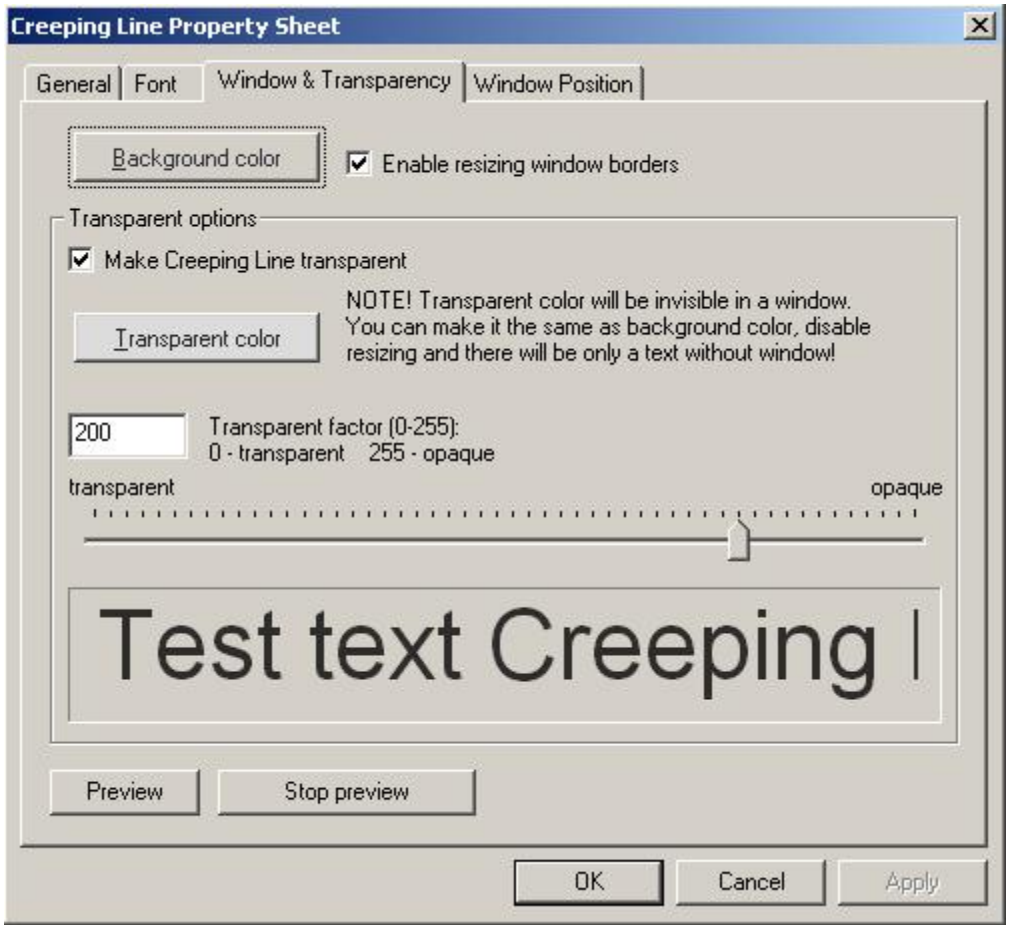


Figure 10.6

5. Set the position of your creeping text.
   a. The Window Position dialog lets you decide where you would like the scrolling text to appear on your screen.
      i. You have the option of either docking your window to the top or bottom of your screen. (***Figure 10.7***)

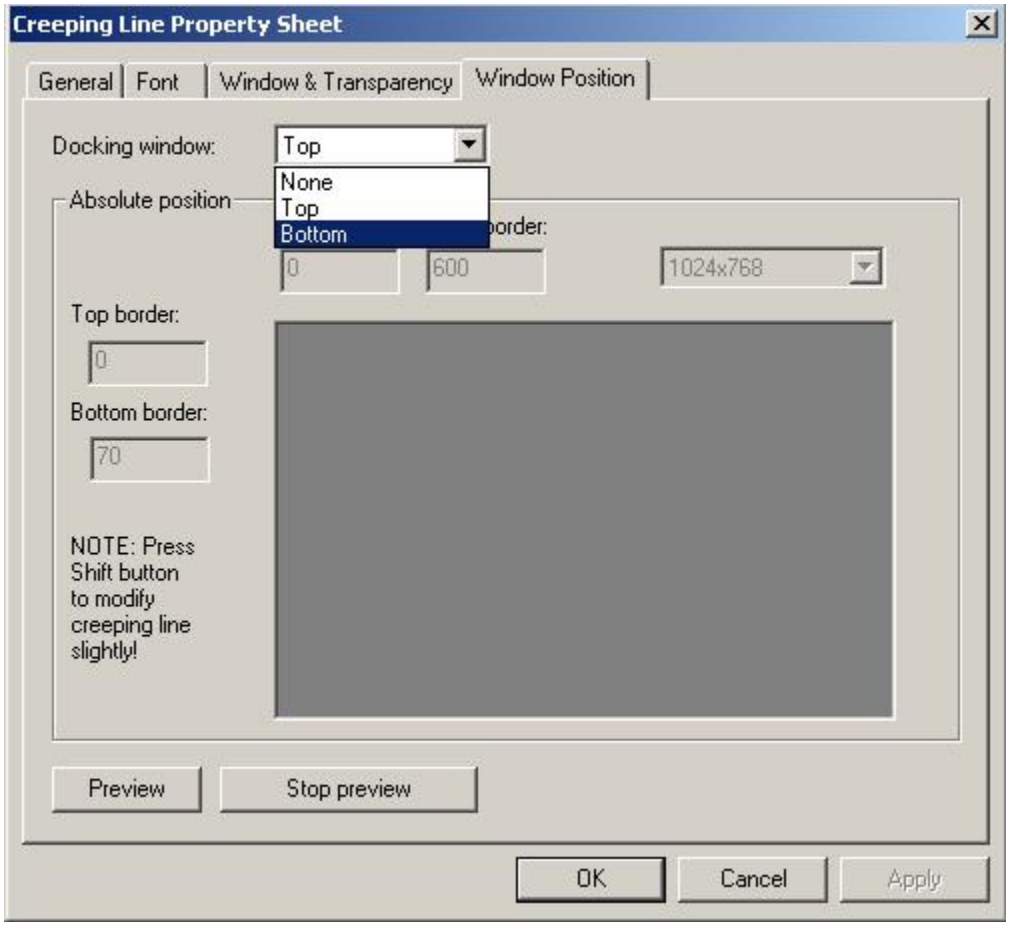


Figure 10.7

Note: You can preview your changes anytime by clicking the 'Preview' button.

6. Save your changes.
   a. To accept your changes click the 'OK' button on your Creeping Line Property Sheet.
   b. To save your work select 'File' and click either 'Save' or 'Save As' from the section menu. (***Figure 10.8***)
   c. Name your file and save on your hard drive.

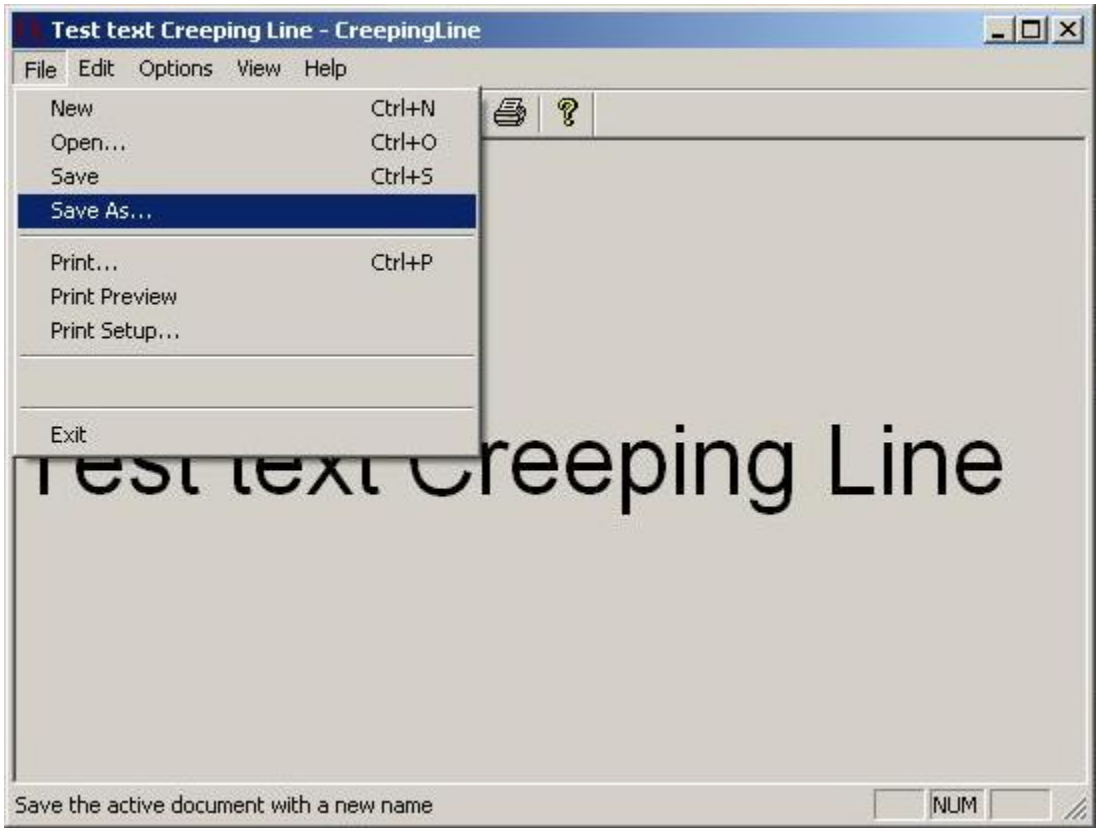


Figure 10.8

The new Creeping Line Manager allows SignWare-Pro users to add multiple Creeping Lines in Tasks rather than in a Schedule. You can now add multi Creeping Lines into specific Tasks.

To add Creeping Lines into a Task:

1. Click on the Task Properties of the Task you want to add the Creeping Line into.
2. Click on the button that is labeled 'Background Manager' (***Figure 10.10***)
3. In the Creeping Line Manager, you can add existing Creeping Lines or create new ones. To create a new one, click on 'Edit'. To add existing Creeping Lines, click on 'Add' and browse for your file. (***Figure 10.11***)
4. You can add more than one Creeping Line in each task. To stop a previous Creeping Line in a different Task that is running in one Schedule, click on 'Stop previous Background.'
5. 'Enable Background documents below:' must be checked for the Creeping Lines to play.
6. You can change the Creeping Lines in Tasks that are already placed in Schedules by going to your Task properties via the Schedule Properties.

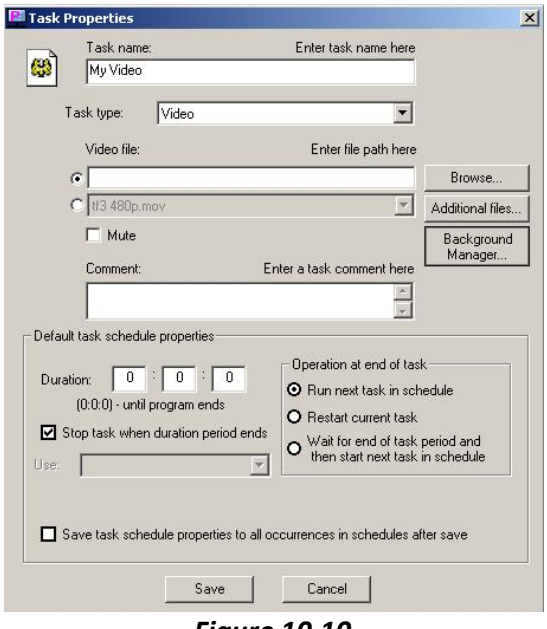


Figure 10.10

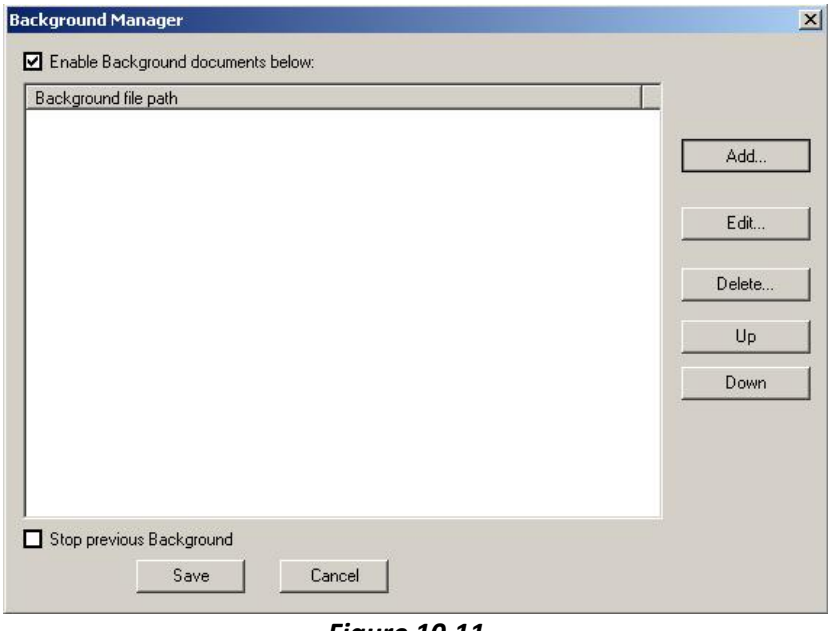


Figure 10.11

11. Registration and Activation

SignWare-Pro software requires registration and activation for successful use of the SignWare-Pro Manager software after 30 days.

To register, go to 'Help' and click 'Registration' (***Figure 11.1***)

Next, click the link that says 'Get key from WWW'. (***Figure 11.2***)

Next you want to fill out the form completely, and make sure the Product at the top says SignWare-Pro. After you have completed the form, click the 'Register Now' button. A new window will open; this contains your activation code. Copy the code, close the window, and paste it in the Register Product window in the 'Activation key:' field. (***Figure 11.3***)

Lastly, click the button that says 'Save Changed Registration Information'. The Product Registration Status will say 'Product has been registered' (***Figure 11.4)*** Click 'Ok' to close the window.

Note: *Make sure you save your activation code in a safe place; it will be needed for product upgrades.*

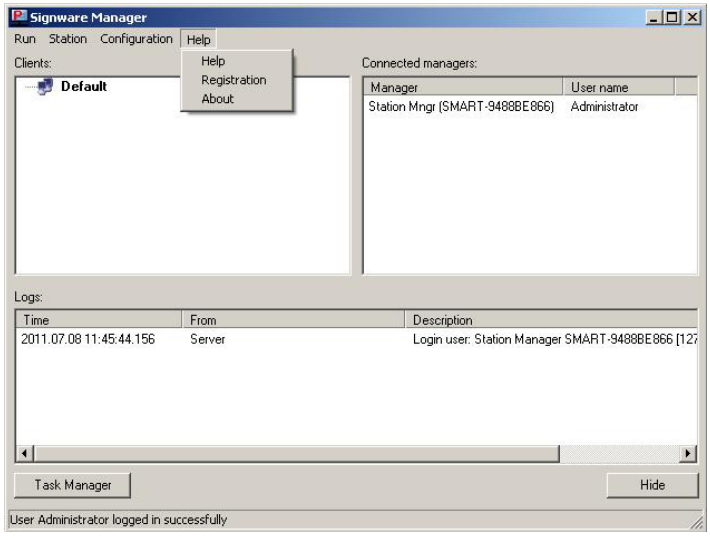


Figure 11.1

Figure 11.2

APPLICA
PRODUCT REGISTRATION
Applica is a world leader in thin client technology. Applica, Inc is constantly improving its broad range of solutions.
By registering, you help us to develop products that meet your needs and to keep you informed about product upgrades
Registration has passed successfully!
Activation code: 2611FB9EC8B526A45E6775D6855D
Remember it!

Figure 11.3

Figure 11.

Specifications

MEDIA SUPPORTED	
Media Supported	Video / Audio / image / Scrolling text / RSS
Video format	1H264, MPEG1/2/4, VC1, AVS, MJPG at 1080p30, VP6, VP7, VP8, RV, Theora, WMV9 at DVD resolutions
Audio Format	MP3
Image Format	JPEG, BMP,PNG,GIF
Scrolling Message (Ticker)	Horizontal with Adjustable speed, font and background color
Display Resolution	Up to 1920x1080x60hz
SOFTWARE MANAGER	
Windows based machine Win7,Winxp and Windows8	
DIMENSIONS	
8.6" x 5.4" x 1.5"	

HARDWARE SPECIFICATIONS	
CPU	700 MHz Low Power ARM1176JZ-F Applications Processor
GPU	Dual Core VideoCore IV®
Multimedia Co-Processor	Dual Core VideoCore IV®
Multimedia Co-Processor	512MB SDRAM
Ethernet	Onboard 10/100 Ethernet RJ45 jack
USB 2.0	Dual USB Connector
Video Output	HDMI 1080p
Audio	Over HDMI
Serial	RS232 Female
Power	5VDC 2A
IR	Optional IR 38Khz
Onboard Storage	SD 8G
Operating System	Linux

Alphabetical Index

Creating and working with schedules 22
Creeping Line Editor 34
Disclaimer Notice 4
Firewall 16
Getting Started 7
Installing SignWare-Pro Server 8
Introduction 3
Limited Warranty Statement 6
Navigating the SignWare-Pro Client 10
Registration and Activation 43
Running SignWare-Pro Server Software for the first time 15
Server Requirements 44
Setting up the SignWare-Pro Client 9
Specifications 44
Super Schedules 25
Task Manager 19
Template Creator 27
Updating the SignWare-Pro Client 14
User Manager 17
What's in the Box? 5

Notes

Notes

© Copyright 2011 Smart-AVI, All Rights Reserved

NOTICE

The information contained in this document is subject to change without notice. Smart-AVI makes no warranty of any kind with regard to this material, including but not limited to, implied warranties of merchantability and fitness for any particular purpose.

Smart-AVI will not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material.

No part of this document may be photocopied, reproduced or translated into another language without prior written consent from Smart-AVI.

For more information, visit www.smartavi.com.

Smart-AVI
SMART AUDIO VIDEO INNOVATION

SmartAVI, Inc. / Twitter: smartavi
11651 Vanowen St. North Hollywood, CA 91605
Tel: (818) 503-6200 Fax: (818) 503-6208
http://www.SmartAVI.com